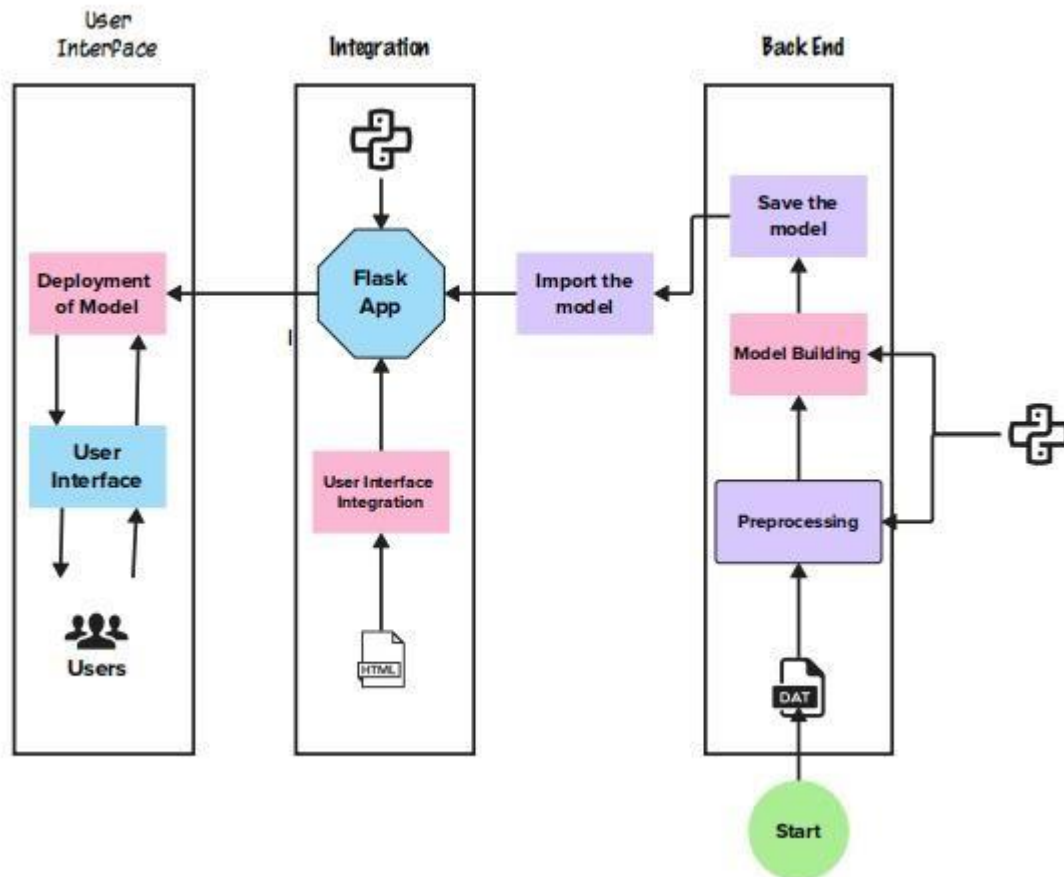


**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

Date	27/10/2023
Team ID	592320
Project Name	Identifying Airline Passenger Satisfaction using Machine Learning
Maximum Marks	4 Marks

**Technical Architecture:**



**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI	HTML
2.	Application Logic-1	Logic for a process in the application	Python
3.	Database	Collect the Dataset Based on the Problem Statement	File Manager
4.	File Storage/ Data	File storage requirements for Storing the dataset	Local System
5.	Frame Work	Used to Create a web Application, Integrating Frontend and Back End	Python Flask
6.	Deep Learning Model	Purpose of Model	Linear Regression, Logistic Regression, Random Forest, Neural Network, etc.
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Python's Flask
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Default
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	None

5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Cache
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### References:

- <https://www.geneca.com/technical-architecture/>
- <https://machine-learning.paperspace.com/wiki/machine-learning-models-explained>
- <https://c4model.com/>